

Cosmic rays from Galactic star clusters

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In this contribution, I will discuss about a model for the production of cosmic rays from massive, young star clusters present in the Galaxy. I will show that cosmic-ray acceleration at the shocks associated with fast stellar winds of star clusters can produce significant contribution in cosmic rays at energies $\sim 10^{16} - 10^{18}$ eV. When combined with the contribution from regular supernova remnants in the Galaxy and an extra-galactic component, cosmic-rays from star clusters can reasonably explain the observed all-particle spectrum and composition of cosmic rays.

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